

加利电子（无锡）有限公司

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零件承认书

SPECIFICATION FOR APPROVAL

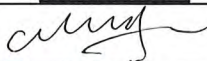
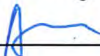
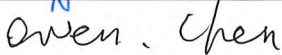
REV NO.	DATE	DESCRIPTION
S1	2024.11.5	First release

P/N of Galtronics

02036073-08188

P/N of Cybertan

2365-18200003R

APPROVED BY	SIGNATURE	DATE
Engineering Manager		2024.11.5
Mechanical Engineer		2024.11.5
RF Engineer		2024.11.5
Quality Engineer		2024.11.5
Project Manager		2024.11.5
Customer Approval		

Product

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1. Galtronics Bluetooth Antenna

The Galtronics 02036073-08188 antenna is a Bluetooth antenna that operates in 2400-2500 MHz. It provides high efficient radiation with good cost benefit. The antenna can be mounted on a customer PCBA and launched with a 50 Ω transmission line.

2. Features

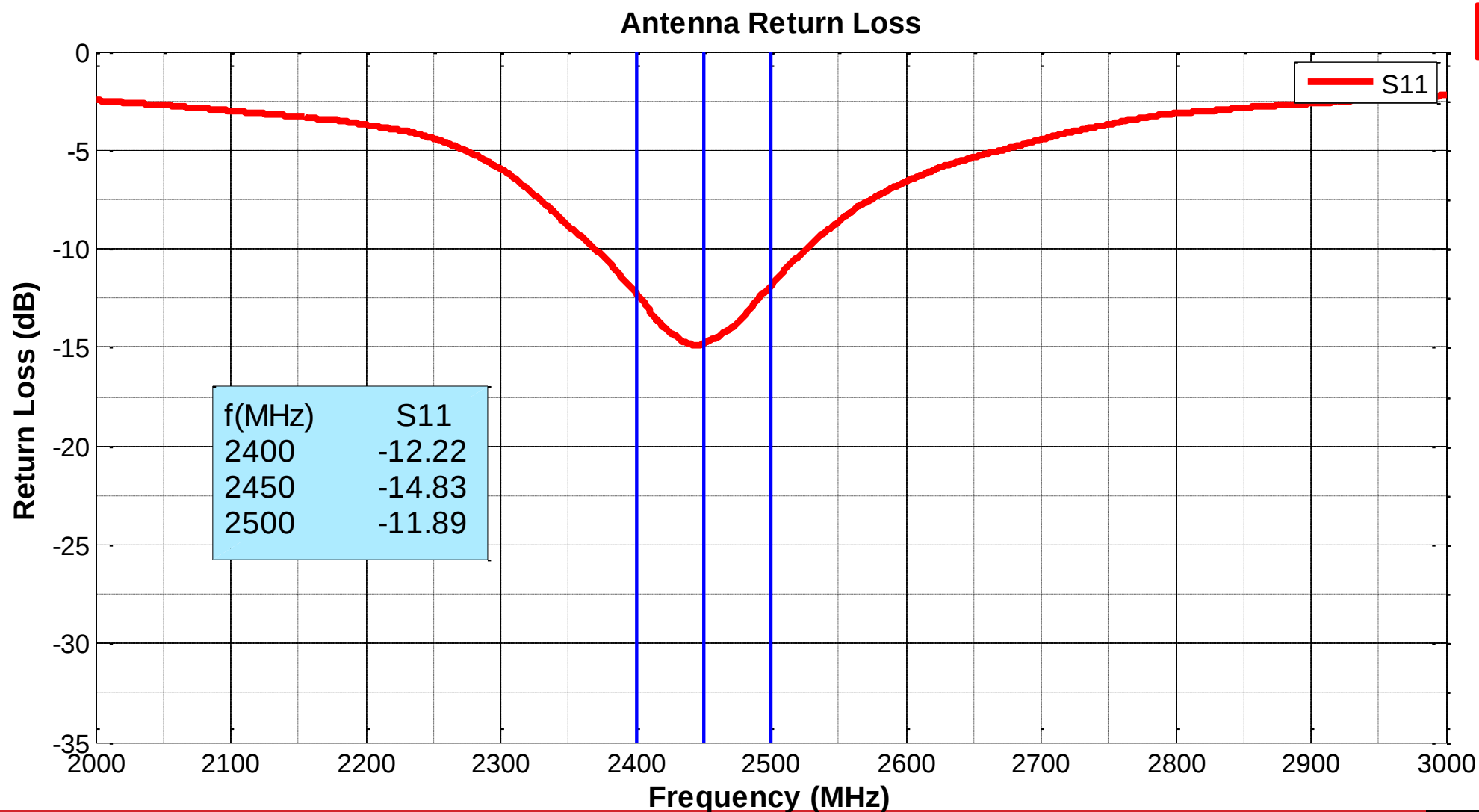
- Operates in 2400-2500 MHz band
- Peak gain: 2.32 dBi in 2400 MHz Band
- PCBA Launched

3. Specifications and Interface

Standard	Bluetooth Band
Frequency Range	2400-2500 MHz
Peak Gain	2.32 dBi in 2400 MHz Band
VSWR	2:1
Feed Impedance	50 Ω
Power Handling	30 dBm
Interface	PCBA Launched
Antenna Dimensions	30.25 mm x 12.6 mm (L x W)
Weight	0.28g
Temperature range	Operating: -20° C to +60° C (-4° F to +140° F) Storage: -20° C to +60° C (-4° F to +140° F)
Humidity Range	Operating: 10% to 85% non-condensing Storage: 5% to 90% non-condensing

Return Loss of Bluetooth Antenna

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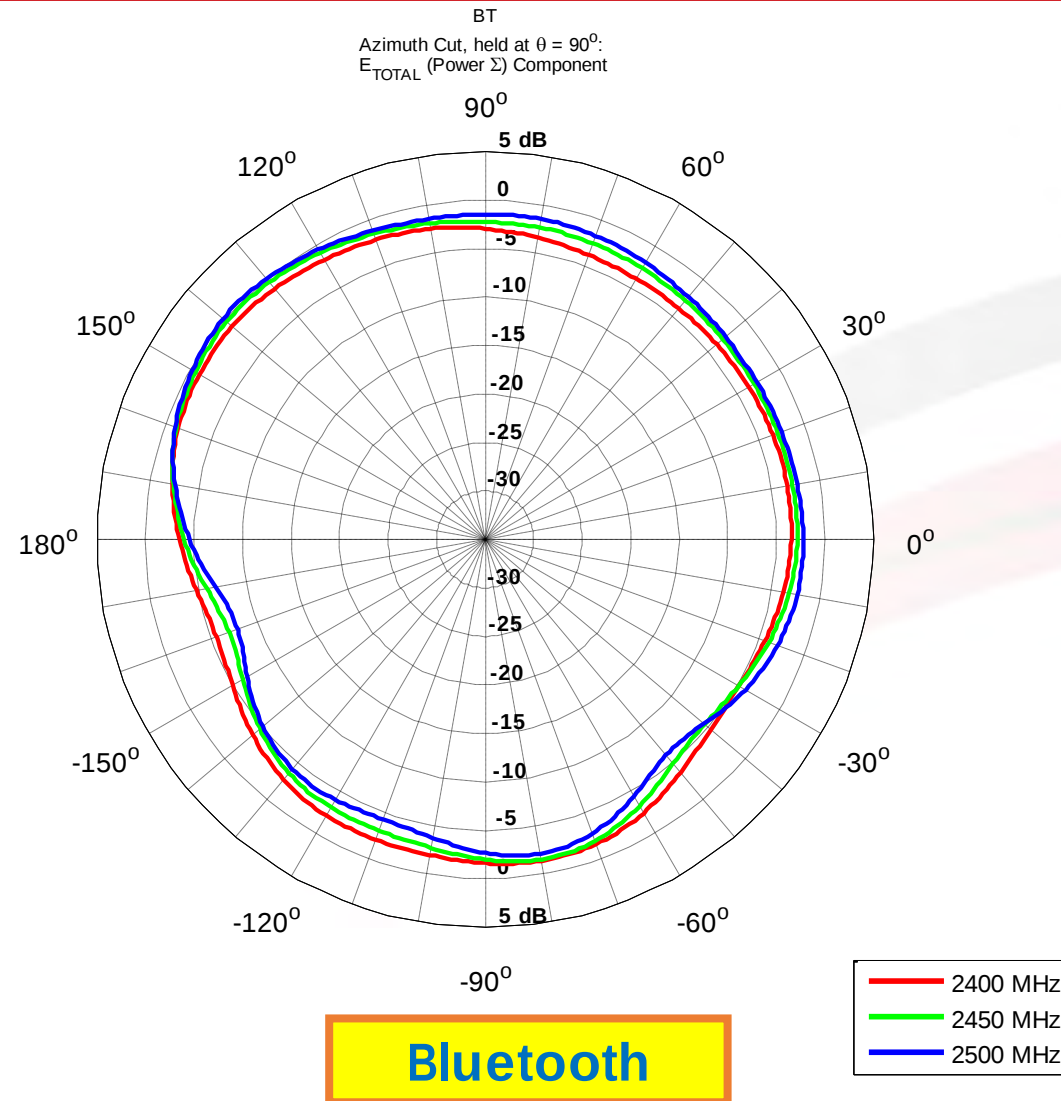


Antenna Peak Gain and Efficiency

2.5 GHz Bluetooth Antennas		
Freq (MHz)	Peak Gain (dBi)	Terminal Efficiency (%)
2400	2.30	64.57
2450	2.12	65.31
2500	2.32	64.27
Average		64.72

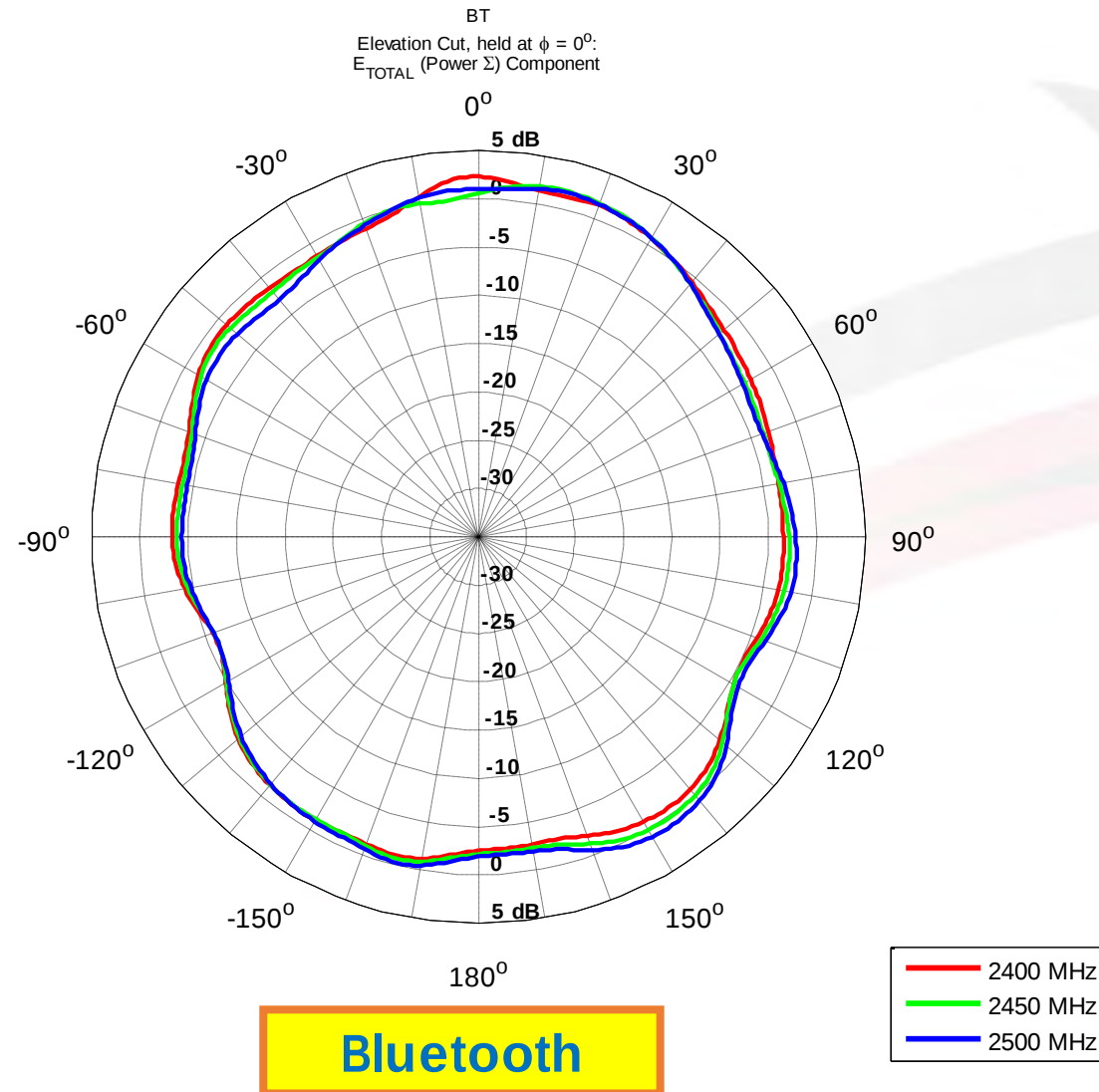
Azimuth Cut - Power Sum for IOT Antennas

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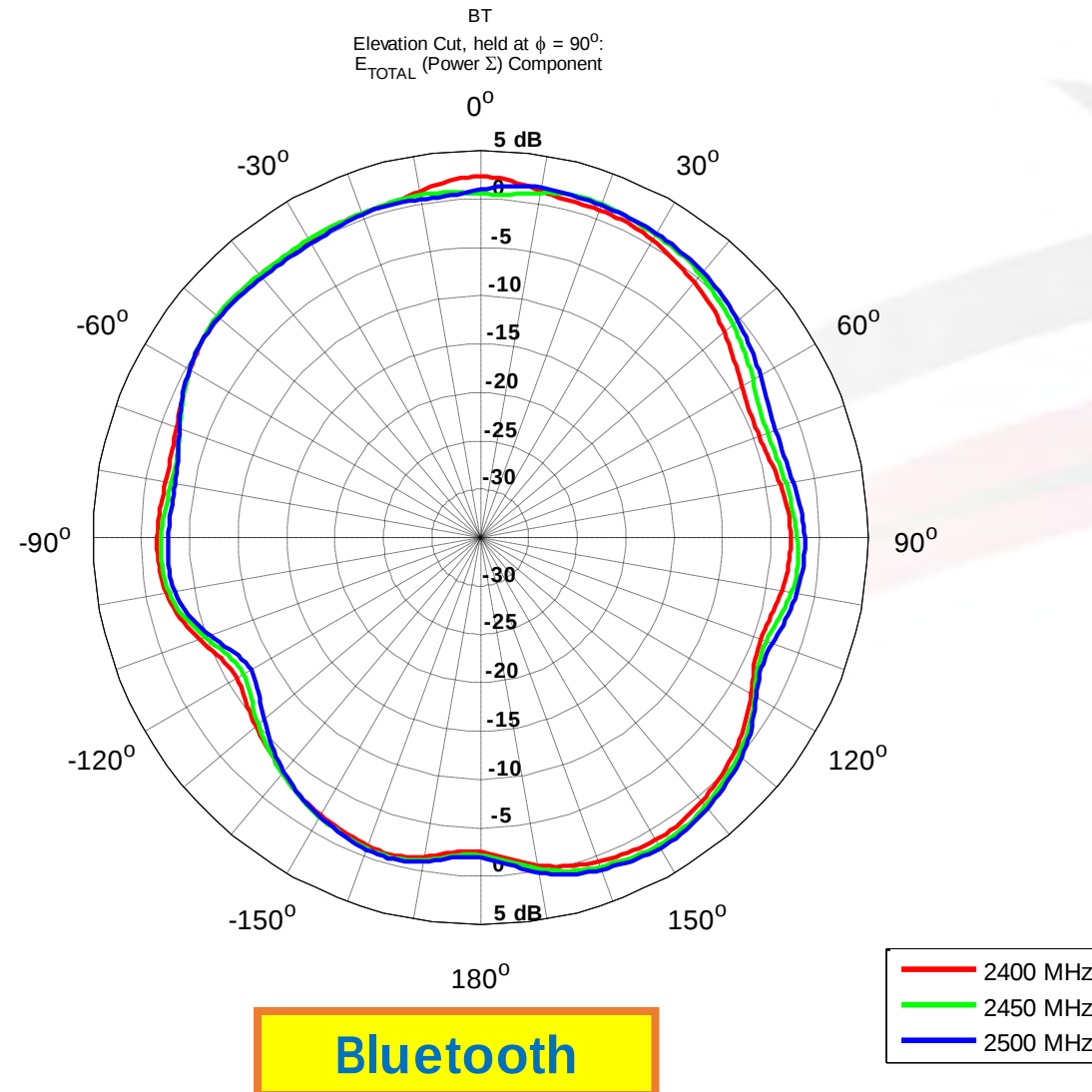
Elevation (Front to Back) Cut - Power Sum for IOT Antennas

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Elevation (Side to Side) Cut - Power Sum for IOT Antennas

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Our Contact

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Thank You!

We Look Forward To Working Together



DWG No
02036073-08188

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DRAWING COVER SHEET

REV	DATE	ECO #	DESCRIPTION
51	2024.11.01		PRELIMINARY RELEASE

APPLICABLE SPEC'S:

SURFACE FINISH, MICROMETERS, CLA (UNLESS STATED) 0.8

TOLERANCES UNLESS OTHERWISE SPECIFIED:

NO PLACE (X)± TWO PLACE (X.XX)0.1
ONE PLACE (X.X)0.2 THREE PLACE (X.XXX)0.05

UNLESS OTHERWISE SPECIFIED:

METRIC SCREW THREAD TO ISO STANDARDS 724, 2861, 965-1 AND 965-2 INCHES SCREW THREAD TO ANSI/ASME B.1.1
ALL ANGLES TO BE 90° ± 70° FRANGE ON ANGLES 45° ± 45° ALL TOLERANCES APPLY AFTER FINISHING. MACHINE CORNER
RADS. 0.25 MAX., TO BE FREE FROM BURRS, SHARP EDGES AND (A) FOREIGN MATERIALS. FLASH ALLOWANCE FOR
PLASTIC MOLDED PARTS TO BE 0.1mm ± DIAMETER MUST BE CONCENTRIC WITHIN 0.08 T.I.R.

ENVIRONMENTAL REQUIREMENTS: COMPLIANCE WITH RoHS DIRECTIVE EU THE LAST VERSION.

QUALITY ASSURANCE NOTES:

NO CHANGE SHALL BE ALLOWED ON PRODUCTION
MATERIAL WITHOUT PRIOR EXPLICIT WRITTEN APPROVAL
BY GALTRONICS ENGINEERING AND PURCHASING
DEPARTMENTS

☒ XR PROCESS CONTROL CHART REQUIRED
WITH EACH SHIPMENT

☐ CRITICAL DIMENSION AFFECTS FORM FIT
OR FUNCTION

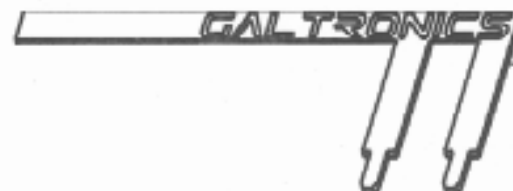
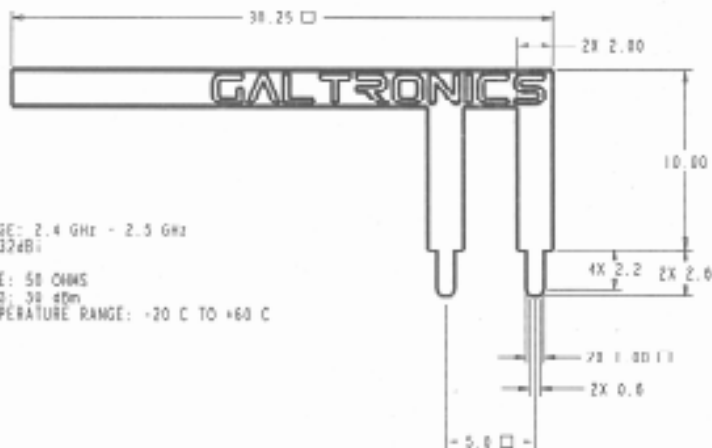
SUFFIX #	DESCRIPTION

DESIGNED BY	
DRAWN BY	

© GALTRONICS CORPORATION LTD.2020

TITLE ANTENNA 2.4GHz	CHKD <i>Adpe</i>	DWG. No. 02036073-08188	
	APPRD <i>crs</i>		
	DATE 2024.11.4	REV. S1	PAGE 1 OF 2

FREQUENCY RANGE: 2.4 GHz - 2.5 GHz
PEAK GAIN: 2.32dBi
VSWR: 2:1
FEED IMPEDANCE: 50 OHMS
POWER HANDLING: 30 dBm
OPERATING TEMPERATURE RANGE: -20 C TO +60 C



↑	ELECTRICAL ELEMENT	STAINLESS STEEL 0.4MM	NICKEL PLATING
NO	DESCRIPTION	MATERIAL	FINISH

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DESIGNED BY: [Signature] CHECKED BY: [Signature]
DRAWN BY: [Signature] APPROVED BY: [Signature]
DATE: 2008.02.20 DATE: 2008.11.14

ANTENNA
2.4GHz

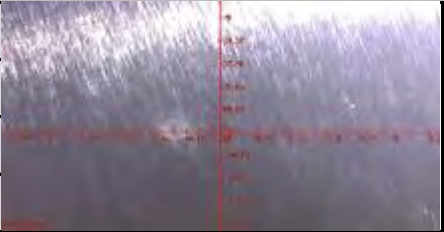
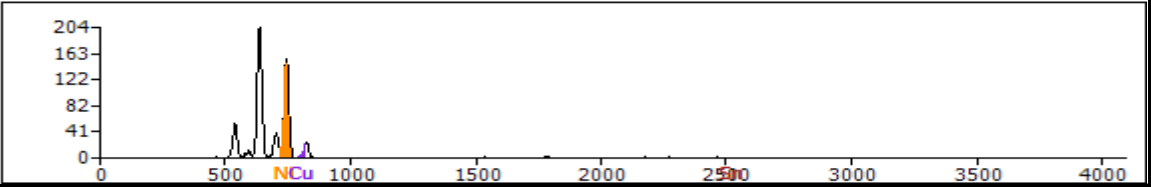
UNQ. NO. 1

02036073-08188

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镀层报告

样品名称 Sample Name	不锈钢SUS430- 0.4X34 (0511016)	测量时间 Test Time	40 (s)		
供应商 Supplier		工作曲线 WorkCurve	Sn-Ni-Cu		
管压 Voltage		操作员 Operator	User		
管流 Current		测量日期 Test Date	2022/5/11 16:11		
	Sn 厚度	Ni 厚度			
1	0.07464 (um)	1.33396 (um)			
2	0.04591 (um)	1.28447 (um)			
3	0.03265 (um)	1.22543 (um)			
4	0.07018 (um)	1.27215 (um)			
5	0.06389 (um)	1.27205 (um)			
最大值	0.07464 (um)	1.33396 (um)			
最小值	0.03265 (um)	1.22543 (um)			
标准偏差	0.01766 (um)	0.03875 (um)			
平均值	0.05745 (um)	1.27761 (um)			
相对标准偏差	30.74%	3.03%			
谱图					
					

测试员：

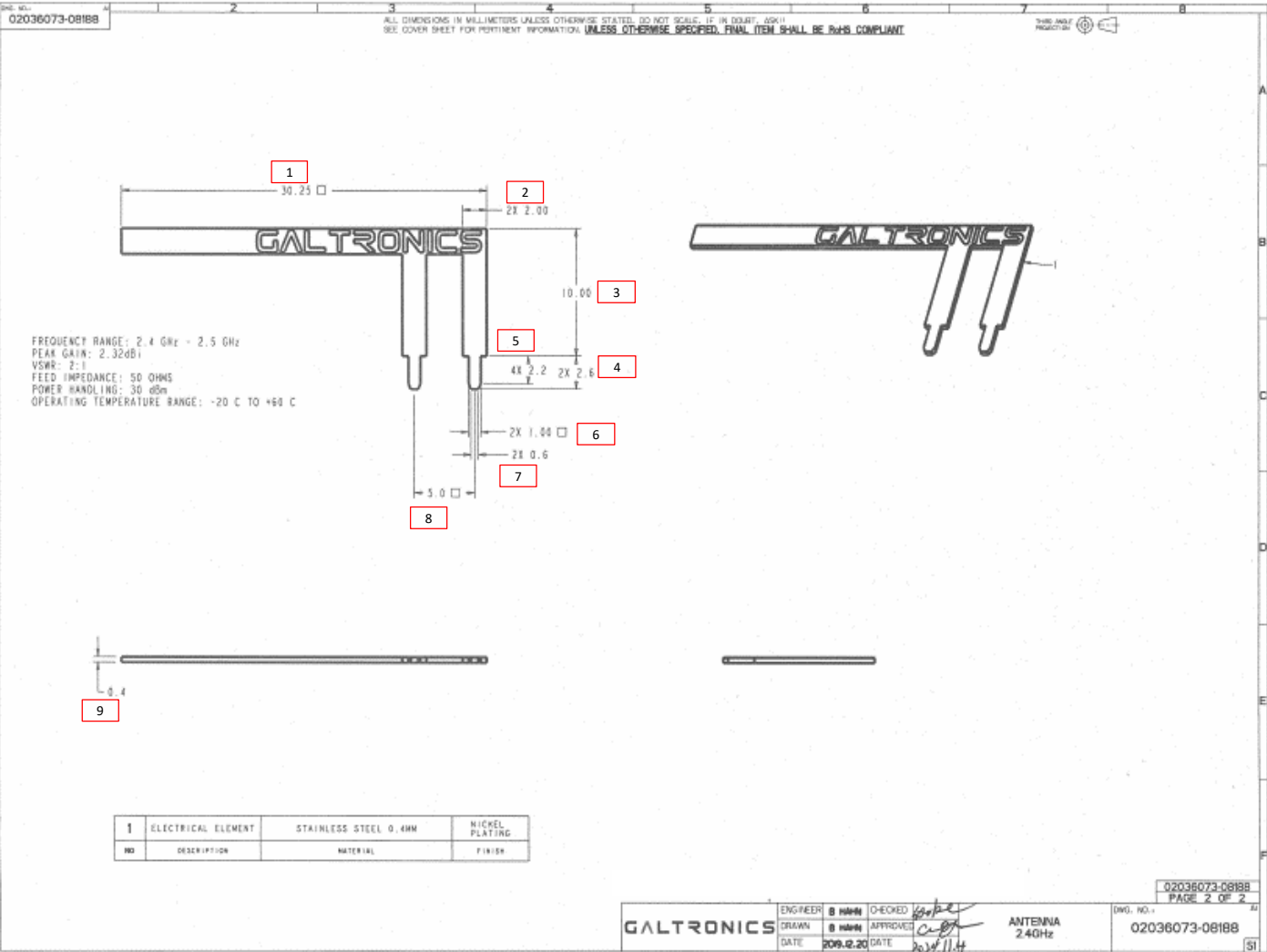
审核：

GALTRONICS					QUALITY INSPECTION REPORT			Check Correct option: ☒ First Article ☐ At supplier facility		
Form No : FM11-03 Rev: C								HG: Heigh gauge	SR: Steel Ruler	FA# (100% Dimensions)
Part NO: 02036073-08188			Rev: S1		Part Description: 8188 ANTENNA T0			MC:Microscope	PG:Pingage	FA# (100% Dimensions)
Date: 24. 10. 30			Qty: 5		Supplier Name: GTW			MM:Micrometer	SS: Smart scope	Sheet 1 of 1
No	Spec	Tol +	Tol-	Equipment	1	2	3	4	5	Comments
1	30.25	0.10	0.10	2D	30.295	30.299	30.276	30.271	30.282	OK
2*1	2.00	0.10	0.10	2D	2.023	2.036	2.022	2.011	2.029	OK
2*2	2.00	0.10	0.10	2D	2.022	2.029	2.015	2.034	2.014	OK
3	10.00	0.10	0.10	2D	10.017	10.021	10.017	10.022	10.033	OK
4*1	2.6	0.2	0.2	2D	2.610	2.607	2.605	2.584	2.616	OK
4*2	2.6	0.2	0.2	2D	2.611	2.597	2.614	2.594	2.591	OK
5*1	2.2	0.20	0.20	2D	2.023	2.036	2.022	2.011	2.029	OK
5*2	2.2	0.20	0.20	2D	2.022	2.029	2.015	2.034	2.014	OK
6*1	1.00	0.10	0.10	2D	1.013	1.036	1.025	1.028	1.027	OK
6*2	1.00	0.10	0.10	2D	1.040	1.050	1.028	1.029	1.015	OK
7*1	0.6	0.20	0.20	2D	0.608	0.614	0.595	0.598	0.622	OK
7*2	0.6	0.20	0.20	2D	0.659	0.651	0.607	0.597	0.614	OK
8	5.0	0.20	0.20	2D	4.998	4.993	5.007	4.990	4.994	OK
9	0.4	0.20	0.20	2D	0.426	0.447	0.447	0.438	0.425	OK
Cosmetic Inspection										
1	Cosmetic	NA	NA	Naked eye	OK	OK	OK	OK	OK	OK
ROHS Verification										
1	XRF spec			XRF	OK					OK

Inspector:Huang Jianying

Reviewed by:

Ammy





Net weight : 0.28g

产品包装规格表					
产品料号	02036073-08188		客户料号	2365-18200003R	
包装总览	每供货独立包装				备注
	零件整箱数量(pcs)	10000	外纸箱	1	
	内含内箱	2	内箱装零件数	5000	
	内含塑料盒	16	内塑料盒装零件数	625	
	包装外形尺寸 (mm)	长	宽	高	
		440	260	210	
包装物料信息	料号	名称	规格	数量	描述
		塑料盒	180*100*43	16	
		气泡袋	200*240	16	
		内包装箱	250*210*190	2	
		外包装箱	440*260*210	1	
包装方法、位置的展示	(P) H.H P/N XXXX-XXXXXXXXXX (Q) QTY (PC) XXXX (M) Mfr P/N XXXXXXXX-XXXXX-X (D) Date Code XXXXXX (L) Lot# XXXX (S) PKG ID XXXXXXXXXXXXXXXXXXXXX 625pcs/袋 1袋/盒 出货标签样式 10000pcs/箱 8盒/内箱				
	版本	设变日	变更内容	变更者	制作日期
					制作
					校对
					审核
				2020.05.07	Shiro
				Alex	
				Brain	

包装跌落测试报告

产品规格/型号	02036073-08188	试验员		
样品数量	1箱	测试起止时间		
试验设备	单臂跌落实验机			
试验目的	验证产品经过包装跌落实验，产品外观是否符合要求			
实验条件	实验前： (-)：根据产品包装重量选择试验高度，跌落方式按照1角3楞6面的方式。每一次各自跌落一次，重量低于10KG，高度设置为970mm (=)：检查产品			
实验前（外观）		试验后（外观）		
				
				
				
试 验 结 果				
判定标准	实验后： 1. 包装外纸箱完好，（无出现大面积破损褶皱损坏等情况符合要求） 2. 实验材料无剥落，无剥离分离，开裂，变形，脱胶等现象 3. 产品外观和性能符合出货标准			
检验项目	测试前	测试后	缺陷描述	判定结果
外观	1. 包装外纸箱完好，实验材料无剥落，无剥离分离，开裂，变形，脱胶等现象 2. 产品外观和性能OK	包装外纸箱出现褶皱，在允许的条件范围内，实验材料无剥落，无剥离分离，开裂，变形脱胶等现象 2. 产品外观和性能OK	无	合格
结论	☒ 合格 ☐ 不合格			